## **CLAIM AMENDMENTS**

- 1. (Currently Amended) A semiconductor device comprising:
- a first insulating film on a silicon substrate; and
- a second insulating film on said first insulating film; wherein said first insulating film is a silicon oxide film having a-film thickness-of not exceeding 1 nm-or less and a suboxide content-of not exceeding 30%-or-less; and said second insulating film is a high dielectric constant insulating film.
- 2. (Currently Amended) The semiconductor device according to claim 1, wherein said high dielectric constant insulating film is selected from the group consisting of a metal oxide film—or and a metal silicate film.
- 3. (Currently Amended) The semiconductor device according to claim 2, wherein said metal oxide film is an oxide film-of including at least one metal selected from-a the group consisting of hafnium, zirconium, lanthanum, and yttrium.
- 4. (Currently Amended) The semiconductor device according to claim 2, wherein said metal silicate film is a silicate film—of including at least one metal selected from—a the group consisting of hafnium, zirconium, lanthanum, yttrium, and aluminum.
- 5. (Original) The semiconductor device according to claim 4, wherein said metal silicate film contains nitrogen.
  - 6. (Currently Amended) A semiconductor device comprising:
  - a first insulating film on a silicon substrate; and
- a second insulating film on said first insulating film, wherein said first insulating film is a silicon oxynitride film having a-film thickness-of not exceeding 1 nm-or-less and a suboxide content-of not exceeding 30%-or-less; and said second insulating film is a high dielectric constant insulating film.
- 7. (Currently Amended) The semiconductor device according to claim 6, wherein said high dielectric constant insulating film is selected from the group consisting of a metal oxide film—of and a metal silicate film.

- 8. (Currently Amended) The semiconductor device according to claim 7, wherein said metal oxide film is an oxide film—of including at least one metal selected from—a the group consisting of hafnium, zirconium, lanthanum, and yttrium.
- 9. (Currently Amended) The semiconductor device according to claim 7, wherein said metal silicate film is a silicate film-of including at least one metal selected from-a the group consisting of hafnium, zirconium, lanthanum, yttrium, and aluminum.
- 10. (Original) The semiconductor device according to claim 9, wherein said metal silicate film contains nitrogen.
  - 11. (Currently Amended) A semiconductor device comprising:
  - a first insulating film on a silicon substrate; and
  - a second insulating film on said first insulating film, wherein

said first insulating film is a silicon nitride film having a-film thickness-of not exceeding 1 nm-or-less and an oxygen content-of-less than not exceeding 0.1 atom%; and said second insulating film is a high dielectric constant insulating film.

12. (Currently Amended) A method for manufacturing a semiconductor device, comprising-the-steps-of:

treating a surface of a silicon substrate with a non-oxidizing gas under-reduced <u>sub-atmospheric</u> pressure;

forming a first insulating film on said silicon substrate while maintaining-said reduced the sub-atmospheric pressure;

forming a metal oxide film on said first insulating film using an oxygen\_containing material, said metal oxide film being a second insulating film; and

heat treating said metal oxide film-under in an-atmosphere ambient of an oxidizing gas.

13. (Currently Amended) A method for manufacturing a semiconductor device, comprising the steps of:

treating a surface of a silicon substrate with a non-oxidizing gas under-reduced sub-atmospheric pressure;

forming a first insulating film on said silicon substrate while maintaining said reduced the sub-atmospheric pressure;

In re Appln. of Tomonori AOYAMA Application No. Unassigned

forming a metal silicate film on said first insulating film using an oxygen-containing material, said metal silicate film being a second insulating film; and

heat treating said metal silicate film-under in an-atmosphere ambient of an oxidizing gas.

- 14. (Currently Amended) The method for manufacturing a semiconductor device according to claim 13, further comprising—a step-of:, after said heat-treatment, performing a treatment-for treating, increasing—a nitrogen concentration of a surface of said second insulating film.
- 15. (Currently Amended) The method for manufacturing a semiconductor device according to claim 14, wherein said treatment for including increasing said nitrogen concentration—is—a by heat treatment—under in an—atmosphere ambient of ammonia gas.
- 16. (Currently Amended) The method for manufacturing a semiconductor device according to claim 14, wherein said treatment for including increasing said nitrogen concentration is a by plasma treatment using in nitrogen gas.
- 17. (Currently Amended) The method for manufacturing a semiconductor device according to claim 13, wherein said first insulating film is a film selected from the group consisting of silicon oxide film, a silicon oxynitride film, and silicon nitride film.
- 18. (Currently Amended) The method for manufacturing a semiconductor device according to claim 13, wherein: said step-of including treating said surface of said silicon substrate with said non-oxidizing gas is performed at a temperature between 25 °C and 600 °C; and, wherein said non-oxidizing gas is a fluorine-containing gas.
- 19. (Currently Amended) The method as claimed in claim 13, wherein-a partial pressure of said non-oxidizing gas-is does not exceed 100 Pa-or-less.
- 20. (Currently Amended) The method for manufacturing a semiconductor device according to claim 13, wherein:

said non-oxidizing gas is a fluorine-containing gas; and said fluorine-containing gas is at least one selected from-a the group consisting of HF, ClF<sub>3</sub>, F<sub>2</sub>, and NF<sub>3</sub>.

In re Appln. of Tomonori AOYAMA Application No. Unassigned

- 21. (Currently Amended) The method for manufacturing a semiconductor device according to claim 13, wherein said oxidizing gas is oxygen-gas.
- 22. (Currently Amended) The method for manufacturing a semiconductor device according to claim 21, wherein-said the oxygen-gas contains one of ozone-or and oxygen radicals.
- 23. (Currently Amended) The method for manufacturing a semiconductor device according to claim 13, wherein said including heat-treatment-is-performed treating at a temperature between 100 °C and 400 °C.

6